

## Exam questions

1. Equivalent circuit and general features of op amps
2. Practical properties: Open-loop Voltage Gain  $A$ , Input Offset Voltage  $V_{os}$ , Input Bias Current  $I_B$ , Input Offset Current  $I_{os}$
3. Noninverting amplifier, voltage follower
4. Inverting amplifier
5. Inverting adder and noninverting adder
6. Integrator and differentiator
7. Current and voltage sources based on op amps
8. Sinusoidal oscillators, conditions for oscillation. Op amp Wien bridge oscillator
9. Rectangular waveform definitions, Multivibrators
10. Op amp astable multivibrator. Asymmetrical op amp multivibrator.

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